

# CHAPTER 12: The Lymphatic System

prepared by: A. A. B.

## Consists of two semi-independent parts:

- ✓ V Lymphatic vessels
- ✓ V Lymphoid tissues and organs

## Lymphatic System functions:

- ✓ V Transport fluids back to the blood
- ✓ V Play essential roles in body defense and resistance to disease

## Lymphatic Characteristics:

**Lymph** – excess tissue fluid carried by lymphatic vessels

## Properties of Lymphatic Vessels:

- ✓ V One way system toward the heart
- ✓ V No pump
- ✓ V Lymph moves toward the heart
  - a) Milling action of skeletal muscle
  - b) Rhythmic contraction of smooth muscle in vessel walls

## Lymphatic Vessels:

### Lymph Capillaries

- ✓ V Walls overlap to form flap-like minivalves
- ✓ V Fluid leaks into lymph capillaries
- ✓ V Capillaries are anchored to connective tissue by filaments
- ✓ V Higher pressure on the inside closes minivalves



## Lymphatic Collecting Vessels

- ✓ V Collects lymph from lymph capillaries
- ✓ V Carries lymph to and away from lymph nodes
- ✓ V Returns fluid to circulatory veins near the heart
- ✓ V Right lymphatic duct
- ✓ V Thoracic duct



## Lymph

### Materials returned to the blood:

- ✓ V Water
- ✓ V Blood cells
- ✓ V Proteins

### Harmful materials that enter lymph vessels:

- ✓ V Bacteria
- ✓ V Viruses
- ✓ V Cancer cells
- ✓ V Cell debris

## Lymph Node

- ✓ V Filter lymph before it is returned to the blood
- ✓ V Defense cells within lymph nodes
  - a) **Macrophages** – engulf and destroy foreign substances
  - b) **Lymphocytes** – provide immune response to antigens



# Lymphatic System Study Guide Key

**Paul D. Anderson**



## **Lymphatic System Study Guide Key:**

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Jarvis's Physical Examination and Health Assessment Student Lab Manual Kathleen Blair,Mel Dudson,Andrea Miller,Nicole Norman,2011-10-30 A revised practical workbook aligning with Jarvis s Physical Examination fully revised for nursing students and clinicians in Australia and New Zealand The manual features chapter by chapter reading assignments corresponding with the textbook along with glossary terms exercises and questions to reinforce key concepts in health assessment Companion publications to Jarvis s Physical Examination Health Assessment Online ANZ edition Jarvis s Physical Examination Health Assessment ANZ edition a comprehensive and fully revised edition of the popular nursing resource tailored for the Australian and New Zealand market Jarvis s Physical Examination Health Assessment Online ANZ edition an interactive set of self paced online learning modules complemented by over images audio and videos Pocket Companion Jarvis s Physical Examination Health Assessment ANZ edition a pocket sized quick reference companion ideal for students to carry on clinical placement Chapter by chapter reading assignments correspond to Jarvis s Physical Examination and Health Assessment ANZ edition Glossary for reinforcement of key terms Study guide questions include o Short Answero Fill in the blankso Critical thinking Review questions include o Multiple choicoo Mix matcho Short answer Additional Learning activities Illustrations with blank labels for the identification and naming of structures Answers to Review questions provided in Appendix A Physical examination

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